

# EUROPEAN PATENT OFFICE

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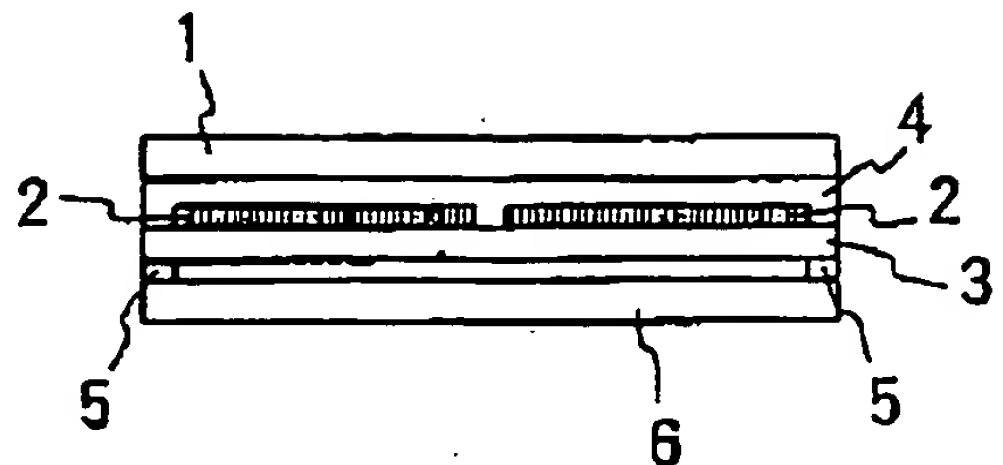
APPLICATION DATE : 19-07-93  
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APPLICANT : TORAY IND INC;

INVENTOR : TAKEDA MASAOKI;

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TITLE : OPTICAL ELEMENT AND DISPLAY  
PLATE



ABSTRACT : PURPOSE: To provide an optical element formed by utilizing assemblies of fibers as two sheets of sheet-like materials and the display plate of a transmission type or reflection type arranged therewith.

CONSTITUTION: This optical element 8 consists of two sheets of the sheet-like materials and has the structure in which at least one sheet thereof is a driving part and is fixed to a fixing part 3 of plural band-shaped electrodes 2 and an insulator 4. The optical element is driven by the electrostatic attraction and repulsion force generated between the driving part and the fixing part when a voltage is impressed to the band-shaped electrodes 2. The sheet-like materials constituting the driving part are the assemblies of the fibers. The display element is constituted by arranging a plurality of these optical elements. The constitution is simple and the thin film-like flexible optical elements having a memory characteristic are obtd. The sheet-like flexible display plate which is formable to a large size and is bendable and roundable is obtd. An effect like that of ground glass is obtd.

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